KRISHNA KAPOOR

Computer Science Graduate | Software Systems, Cloud, Security & Intelligent Systems

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EDUCATION

Indrashil University - B.Tech in Computer Science and Engineering | Gujarat, India | Sep 2022 - May 2026

- CGPA: 6.19/10. Later-semester SGPAs: 7.05, 6.11, 7.00, and 8.00; final 15-credit Major Project / Industry Project: Grade A.
- Selected upper-level coursework: Design and Analysis of Algorithms, Artificial Intelligence, Cloud Computing, Computer Networks, Operating Systems, Cyber Security, Cryptography and Network Security, Data Analytics, Web and Database Security, Cyber Forensics, and Wireless Security.

ACADEMIC & TECHNICAL INTERESTS

Software systems; cloud and distributed systems; cybersecurity and privacy; intelligent and connected systems; applied AI/ML; reliable, observable, and secure computing systems.

PROJECTS

NETRA - Network and Packet Forensics Platform | GitHub | Live

Focus: *Network forensics, security analysis, evidence handling, backend services, deployment*

- Developed an authorized network-forensics platform for PCAP/PCAPNG intake, protocol and session reconstruction, anomaly explanation, evidence metadata, and report generation.
- Designed the workflow around traceability, access control, controlled analysis, custody records, and explicit investigator review rather than treating automated findings as final conclusions.

NextStop.ai - Final-Year AI Meeting Intelligence Project | GitHub | Live

Focus: *Software systems, applied AI, cloud workflows, reliability, secure data handling*

- Designed and developed the final-year system to convert meeting recordings and transcripts into summaries, action items, decisions, and reviewable outputs.
- Addressed user ownership, long-running processing, failure recovery, secure credential handling, background workers, and observability across web and desktop components.

ThreatForge - Threat Detection and Security Analytics Platform | GitHub | Live

Focus: *Cybersecurity, applied ML, threat analysis, monitoring, reproducible system behaviour*

- Built experimental workflows for malware classification, steganography analysis, network anomaly detection, YARA-rule testing, alerts, dashboards, and downloadable reports.
- Integrated authentication, background processing, logging, monitoring, and separable application components to make system behaviour easier to inspect and evaluate.

VulnScanner - Web Security Scanning Platform | GitHub | Live

Focus: *Application security, vulnerability assessment, software architecture, testing*

- Developed a scanning workflow for queued assessments, live progress, findings, severity-ranked reporting, and remediation review.
- Implemented authenticated service boundaries, rate limiting, origin controls, testing, and deployment documentation to support safer operation.

HealthDoc - AI Medical Report Intelligence Platform | GitHub | Live

Focus: *Applied AI, backend systems, data handling, secure software design*

- Built report-ingestion and question-answering workflows with secure sharing, audit logging, background processing, and persistent storage.
- Used the project to explore how AI-assisted outputs can be incorporated into software where data handling, access control, and traceability matter.

AI CodeMate - Collaborative AI Development Environment | GitHub | Live

Focus: *Collaborative software systems, developer tooling, real-time applications*

- Developed a browser-based development environment with AI-assisted explanation, debugging workflows, live preview, and collaborative editing.
- Implemented shared editing, GitHub import, diff workflows, testing support, and deployment-oriented configuration.

PROFESSIONAL EXPERIENCE

Maincrafts Technology - Cloud Computing & DevOps Intern | Feb 2026 - Aug 2026

- Completed a six-month internship supporting cloud and deployment work across AWS, Azure, GCP, Docker, Kubernetes, Linux, CI/CD pipelines, monitoring, and documentation.
- Contributed to environment configuration, build and release validation, server deployment practices, Git-based collaboration, and production-minded delivery.
- Developed practical awareness of access controls, credentials, configuration risk, observability, and the security impact of infrastructure and deployment decisions.

TECHNICAL SKILLS

Programming: Python, TypeScript, JavaScript, Java, C++, SQL, Bash; working familiarity with Rust.
Systems / Backend: FastAPI, Flask, Fastify, Node.js, REST APIs, WebSockets, PostgreSQL, Redis, Supabase, Qdrant.
Cloud / DevOps: AWS, Azure, GCP, Docker, Kubernetes, Linux, CI/CD, GitHub Actions, Jenkins, GitLab CI, Prometheus, Grafana.
Security / Analysis: Wireshark/TShark, Zeek, Scapy, YARA, vulnerability assessment, authentication/MFA, audit logging, secure API design.
AI / Data: scikit-learn, Hugging Face, OpenAI API, RAG, OCR; experience integrating AI components into larger software systems.

CERTIFICATIONS & PROFESSIONAL LEARNING

Google Cloud Cybersecurity Certificate; Google Cloud Computing Foundations; Cyber Threat Management - Cisco Networking Academy; Python Essentials 1 - Cisco/OpenEDG; Ethical Hacking and Cyber Security Workshop - NIT Goa & National Forensic Sciences University; Hugging Face Agents Course; 100xDevs Cohort 3.